

Sub B1

1. (Amended) An image processing apparatus for converting input color data to color component data to be outputted by using a conversion table, said apparatus comprising:

a first storage, arranged to store at least one compressed conversion table, wherein data of the compressed conversion table are arranged based on positions of grid points in a color component unit;

an expander, arranged to expand the compressed conversion table; and

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a converter, arranged to convert the input color data to the color component data using the expanded conversion table.

2. (Amended) The apparatus according to claim 1, further comprising a second storage arranged to store the expanded conversion table.

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3. (Amended) The apparatus according to claim 1, wherein
said converter converts color space.

4. (Amended) The apparatus according to claim 1, wherein the color component data includes a black color component.

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5. (Amended) The apparatus according to claim 1, further comprising a sorter arranged to sort data included in the expanded conversion table while a combination of output color components of a grid point is kept.

6. (Amended) The apparatus according to claim 1, further comprising:
an input section, arranged to input a command indicative of print instruction
and data indicative of a print medium characteristic; and
a selector, arranged to select one of conversion tables expanded by said
expander in accordance with the data indicative of the print medium characteristic.

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7. (Amended) An image processing method of converting input color data
to color component data to be outputted by using a conversion table, said method
comprising the steps of:

expanding a compressed conversion table, wherein data of the
compressed conversion table are arranged based on positions of grid points in a color
component unit; and
converting the input color data to the color component data using the
expanded conversion table.

8. (Cancelled)

9. (Cancelled)

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D0 10. (Amended) The method according to claim 7, further comprising the
step of sorting data included in the expanded conversion table while a combination of
output color components of a grid point is kept.

11. (Cancelled)

12. (Not Amended From Previous Version) A data processing method for processing data used in data conversion, said method comprising the steps of:

inputting conversion table data where combinations of plural color component data are arranged by grid points;

sorting the conversion table data in a color component unit; and

compressing the sorted conversion table data.

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13. (Amended) A computer program product storing a computer readable medium having computer program code, for converting input color data to color component data to be outputted by using data conversion table, said product comprising process procedure codes for:

expanding a compressed conversion table, wherein data of the compressed conversion table are arranged based on positions of grid points in a color component unit ; and

converting data to the color component data using the expanded conversion table.

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14. (Amended) A computer program product storing a computer readable medium having computer program code for processing data used in data conversion, said product comprising process procedure codes for: